### APPENDIX J SINGLE YEAR, NORMAL-YEAR AND MULTIPLE DRY WATER YEAR UWMP SUPPLY AND DEMAND ASSESSMENTS

### **Table of Contents**

- J-1. Fallbrook Public Utility District
- J-2. Helix Water District
- J-3. Lakeside Water District
- J-4. Metropolitan Water Authority of Southern California
- J-5. Olivenhain Municipal Water District
- J-6. Otay Water District
- J-7. Padre Dam Municipal Water District
- J-8. Rainbow Municipal Water District
- J-9. Ramona Municipal Water District
- J-10. Rincon del Diablo Municipal Water District
- J-11. San Diego County Water Authority
- J-12. Santa Fe Irrigation District
- J-13. Sweetwater Authority/ South Bay Irrigation District
- J-14. Vallecitos Water District
- J-15. Valley Center Municipal Water District
- J-16. Vista Irrigation District
- J-17. Yuima Municipal Water District

# Appendix J-1 Fallbrook Public Utility Water District

The following water supply and demand tables are an excerpt from:

2005 Urban Water Management Plan Prepared by Fallbrook Public Utility Water District December 2005 Pages 38-41

PROJECTED NORMAL YEAR SUPPLY AND DEMAND COMPARISON - AF/Y (TABLE 26)

	2005	2010	2015	2020	2025	2030
San Diego County Water Authority	17,400	16,149	15,773	15,625	15,189	15,241
Groundwater supplier: Santa Margarita River	0	6,000	6,000	6,000	6,000	6,000
Groundwater supplier: local wells in Fallbrook	130	100	100	100	100	100
Surface diversions: rainfall into Lake Skinner	1,260	1,000	1,000	1,000	1,000	1,000
Recycled water	317	480	530	590	600	600
Total Supply	19,107	23,729	23,403	23,315	22,889	22,941
Supply as % of year 2005	100%	124%	122%	121%	119%	119%
Total Demand	14,785	16,629	16,303	16,215	15,789	15,841
Demand as % of year 2005	100%	112%	110%	110%	107%	107%
Difference (supply minus demand)	4,322	7,100	7,100	7,100	7,100	7,100

PROJECTED SINGLE DRY-YEAR SUPPLY AND DEMAND COMPARISON - AF/Y (TABLE 27)

	2010	2015	2020	2025	2030
San Diego County Water	17,279	16,877	16,719	16,252	16,308
Authority					
Groundwater supplier:	3,000	3,000	3,000	3,000	3,000
Santa Margarita River	***			Proproduction	
Groundwater supplier:	0	0	0	0	0
local wells in Fallbrook			The state of the s		
Surface diversions: rainfall	0	0	0	0	0
into Lake Skinner			- Line Association of the Control of		at to the same of
Recycled water	480	530	590	600	600
Total Supply	20,759	20,407	20,309	19,852	19,908
% of Normal year	107%	107%	107%	107%	107%
<b>Total Demand</b>	17,793	17,444	17,350	16,894	16,950
% of Normal year	107%	107%	107%	107%	107%
Difference (supply minus	2,966	2,963	2,959	2,958	2,958
demand)					

PROJECTED MULTIPLE DRY-YEAR PERIOD ENDING IN 2010 - AF/Y (TABLE 28)

	2006	2007	2008	2009	2010
San Diego County Water	17,150	16,900	16,650	16,400	16,149
Authority					
Groundwater supplier:	2,000	2,000	2,000	2,000	2,000
Santa Margarita River					
Groundwater supplier:	0	0	0	0	0
local wells in Fallbrook			Management of the Control of the Con		
Surface diversions: rainfall	0	0	0	0	0
into Lake Skinner	Para Para Para Para Para Para Para Para	e opy	PP. Indiana Company		
Recycled water	317	317	317	317	480
Total Supply	19,467	19,217	18,967	18,717	18,629
% of Normal year	107%	107%	107%	107%	107%
<b>Total Demand</b>	15,155	15,524	15,893	16,212	16,629
% of Normal year	107%	107%	107%	107%	107%
Difference (supply minus	4,312	3,693	3,074	2,505	2,000
demand)				-	

PROJECTED MULTIPLE DRY-YEAR PERIOD ENDING IN 2015 - AF/Y (TABLE 29)

2011 2012 2013 2014 20					
	<del></del>		<del></del>	<del></del>	2015
San Diego County Water	16,074	15,999	15,924	15,849	15,773
Authority					
Groundwater supplier:	2,000	2,000	2,000	2,000	2,000
Santa Margarita River			reprivate the state of		A STATE OF THE STA
Groundwater supplier:	0	0	0	0	0
local wells in Fallbrook		****	No.		
Surface diversions: rainfall	0	0	0	0	0
into Lake Skinner	-				
Recycled water	480	480	480	480	530
Total Supply	18,554	18,479	18,404	18,329	18,303
% of Normal year	107%	107%	107%	107%	107%
Total Demand	16,564	16,499	16,434	16,369	16,303
% of Normal year	107%	107%	107%	107%	107%
Difference (supply minus	1,990	1,980	1,970	1,960	2000
demand)					

PROJECTED MULTIPLE DRY-YEAR PERIOD ENDING IN 2020 - AF/Y (TABLE 30)

	2016	2017	2018	2019	2020
San Diego County Water	15,743	15,713	15,683	15,653	15,625
Authority					
Groundwater supplier:	2,000	2,000	2,000	2,000	2,000
Santa Margarita River					
Groundwater supplier:	0	0	0	0	0
local wells in Fallbrook		of the state of th			
Surface diversions: rainfall	0	0	0	0	0
into Lake Skinner					
Recycled water	530	530	530	530	590
Total Supply	18,273	18,243	18,213	18,183	18,215
% of Normal year	107%	107%	107%	107%	107%
Total Demand	16,286	16,269	16,251	16,233	16,215
% of Normal year	107%	107%	107%	107%	107%
Difference (supply minus	1,987	1,974	1,962	1,950	2,000
demand)					

PROJECTED MULTIPLE DRY-YEAR PERIOD ENDING IN 2025 - AF/Y (TABLE 31)

Fiscal year	2021	2022	2023	2024	2025
San Diego County Water	15,538	15,451	15,364	15,277	15,189
Authority					
Groundwater supplier:	2,000	2,000	2,000	2,000	2,000
Santa Margarita River					
Groundwater supplier:	0	0	0	0	0
local wells in Fallbrook	***				
Surface diversions: rainfall	0	0	0	0	0
into Lake Skinner	III LEANAN IN ANN ANN ANN ANN ANN ANN ANN ANN				
Recycled water	590	590	590	590	600
Total Supply	18,128	18,041	17,954	17,867	17,789
% of Normal year	107%	107%	107%	107%	107%
Total Demand	16,130	16,045	15,960	15,875	15,789
% of Normal year	107%	107%	107%	107%	107%
Difference (supply minus	1,998	1,996	1,994	1,992	2,000
demand)	***************************************				

PROJECTED MULTIPLE DRY-YEAR PERIOD ENDING IN 2030 - AF/Y (TABLE 32)

		,	AI) I (IAL		***************************************
Fiscal year	2026	2027	2028	2029	2030
San Diego County Water	15,199	15,209	15,219	15,229	15,241
Authority	,				
Groundwater supplier:	2,000	2,000	2,000	2,000	2,000
Santa Margarita River					
Groundwater supplier:	0	0	0	0	0
local wells in Fallbrook			To the second se		
Surface diversions: rainfall	0	0	0	0	0
into Lake Skinner	n-y-vi-				
Recycled water	600	600	600	600	600
Total Supply	17,799	17,809	17,819	17,829	17,841
% of Normal year	107%	107%	107%	107%	107%
Total Demand	15,799	15,809	15,819	15,829	15,841
% of Normal year	107%	107%	107%	107%	107%
Difference (supply minus	2,000	2,000	2,000	2,000	2,000
demand)					

### Appendix J-2 Helix Water District

The following water supply and demand tables are an excerpt from:

2005 Urban Water Management Plan Update Prepared by Helix Water District December 2005 Pages 28-30

Table 4-6
Projected Water Supply and Demand
Normal Water Years, 2005 - 2030

Water Supply Sources	2010	2015	2020	2025	2030
Imported/SDCWA	36,889	37,125	37,332	37,465	37,832
Local Groundwater	250	250	250	250	250
Local Runoff	4,605	4,605	4,605	4,605	4,605
Future Conservation <sup>(1)</sup>	412	916	1,392	1,894	2,313
Total Projected Supplies	42,156	42,896	43,579	44,214	45,000
Total Projected Demand	42,156	42,896	43,579	44,214	45,000

<sup>(1)</sup> See Section 3 for explanation of future conservation.

Table 4-7
Projected Water Supply and Demand
Single Dry Water Years, 2005 - 2030

Water Supply Sources	2010	2015	2020	2025	2030
Imported/SDCWA	44,445	44,733	44,988	45,165	45,587
Local Groundwater	250	250	250	250	250
Local Runoff	0	0	0	0	0
Future Conservation <sup>(1)</sup>	412	916	1,392	1,894	2,313
Total Projected Supplies	45,107	45,899	46,630	47,309	48,150
Total Projected Demand	45,107	45,899	46,630	47,309	48,150

<sup>(1)</sup> See Section 3 for explanation of future conservation.

Table 4-8
Projected Water Supply and Demand
Multiple Dry Water Years, 2006 Through 2008

Water Supply Sources	2006	2007	2008
Imported/SDCWA	43,444	43,534	43,624
Local Groundwater	250	250	250
Local Runoff	640	640	640
Future Conservation	82	165	247
Total Projected Supplies	44,416	44,589	44,761
Total Projected Demands	44,416	44,589	44,761

Table 4-9
Projected Water Supply and Demand
Multiple Dry Water Years, 2011 Through 2013

Water Supply Sources	2011	2012	2013
Imported/SDCWA	43,862	43,920	43,977
Local Groundwater	250	250	250
Local Runoff	640	640	640
Future Conservation	513	614	714
Total Projected Supplies	45,265	45,423	45,582
Total Projected Demands	45,265	45,423	45,582

Table 4-10
Projected Water Supply and Demand
Multiple Dry Water Years, 2016 Through 2018

Water Supply Sources	2016	2017	2018
Imported/SDCWA	44,144	44,195	44,246
Local Groundwater	250	250	250
Local Runoff	640	640	640
Future Conservation	1,011	1,106	1,202
Total Projected Supplies	46,045	46,191	46,337
Total Projected Demands	46,045	46,191	46,337

Table 4-11
Projected Water Supply and Demand
Multiple Dry Water Years, 2021 Through 2023

Water Supply Sources	2021	2022	2023
Imported/SDCWA	44,383	44,419	44,454
Local Groundwater	250	250	250
Local Runoff	640	640	640
Future Conservation	1,492	1,593	1,693
Total Projected Supplies	46,766	46,902	47,038
Total Projected Demands	46,766	46,902	47,038

### Appendix J-3 Lakeside Water District

The following water supply and demand tables are an excerpt from:

Urban Water Management Plan Prepared by Lakeside Water District December 2006 Page 4-6

Table 4-2
Projected Supply and Demand Comparison (AFY)

	Water Supplies by Year (AFY)				
Description	2010	2015	2020	2025	2030
Imported Water Supply Groundwater Wells	3,968	4,003	4,038	4,074	4,110
	1,468	1,481	1,494	1,507	1,520
Supply Total	5,436	5,484	5,532	5,581	5,630

	Water Demand by Year (AFY)				
Description	2010	2015	2020	2025	2030
Projected Demand	5,436	5,484	5,532	5,581	5,630
Difference (Supply - Demand)	0	0	0	0	0
Ratio of Supply/Demand	100%	100%	100%	100%	100%

Table 4-3
District Supply Reliability (AFY)

	Normal Year	Single Dry	Multiple Dry Water Y		ars (AFY)
Supply Source	(2004) <sup>1</sup>	$(2004)^2$	2006	2007	2008
SDCWA Imported <sup>3</sup>	4,414	4,634	3,966	4,094	4,226
Groundwater	1,044	1,096	1,424	1,470	1,517
Total Supply	5,457	5,730	5,390	5,564	5,743
Demand	5,457	5,730	5,390	5,564	5,743

<sup>&</sup>lt;sup>1</sup> 2004 water supply and demand are shown because 2005 was an unusually wet year.

 $<sup>^2</sup>$  Demand for a single dry year assumes a 5% increase in demand; multiple dry years assume increased demand due to growth but a 10% decrease resulting from water rationing.

 $<sup>^3</sup>$  The Water Authority's 2005 UWMP indicates that enough imported water will be available to meet multiple dry year demands.

## **Appendix J-4 Metropolitan Water District of Southern California**

The following water supply and demand tables are an excerpt from:

2005 Urban Water Management Plan Prepared by Metropolitan Water District of Southern California November 2005 Page II-11 - II-14

Table II-4 Metropolitan Regional Water Demands Single Dry Year

(Acre-Feet)

	irm Demands on Metropolitan <sup>5</sup>	2,320,000	2,196,000	2,229,000	2,358,000	2,487,000
					2.7000	20,000
ļ	nterim Agricultural Water Program	105,000	91,000	78,000	59,000	50,000
F	Replenishment Service 4	144,000	153,000	159,000	159,000	145,00
	Full Service (Tier I and Tier II)	2,246,000	2,132,000	2,174,000	2,317,000	2,452,00
. 1	fotal Metropolitan Demands (D=A-B-C)	2,495,000	2,376,000	2,411,000	2,535,000	2,647,00
		***************************************			~~~,~~	502,00
(	Other Imported Supplies	170,000	202,000	292,000	302,000	302,00
	Desalination	28,000	128,000	150,000	150,000	150,00
	Total Recycling	310,000	387,000	408,000	408,000	115,00 408,00
	Groundwater Recovery	87,000	115,000	115,000	95,000 115,000	95,0
	Los Angeles Aqueduct	96,000	95,000	93,000 95,000	93,000	93,00
	Surface Water	93,000	1,394,000 93.000	1,399,000	1,412,000	1,430,0
	Groundwater	<b>2,159,000</b>	2,414,000	2,552,000	2,575,000	2,593,0
	Total Local Supplies	2 150 000	0.414.000	0 550 000		
	Pre-1990 Conservation	250,000	250,000	250,000	250,000	250,00
	Target			000,000	7 00,000	047,00
	Code-based, Price-Effect, and Remaining IRP	521,000	613.000	686,000	766,000	847,0
	Existing Active (through 2004) 3	94,000	92,000	92,000	91,000	91.0
J.	Total Conservation <sup>2</sup>	865,000	955,000	1,028,000	1,107,000	1,188,0
	sedwaler ballier	49,000	62,000	66,000	66,000	66,0
	Groundwater Replenishment Seawater Barrier	182,000	192,000	198,000	198,000	196,0
	Retail Municipal and Industrial	4,951,000	5,186,000	5,457,000		5,947,0
	Retail Agricultural	337,000	303,000	271,000		221,0
١	Total Demands <sup>1</sup>	5,519,000				6,430,0
					AND THE PERSON NAMED IN COLUMN TWO	TO THE POST OF THE
	Control Control Control Control Control	2010	2015	2/02/0	2023	7

#### Notes:

All units are acre-feet unless specified, rounded to the nearest hundred.

Totals may not sum due to rounding.

- <sup>1</sup> Growth Projections: SCAG 2004 Regional Transportation Plan; SANDAG 2030 Forecast
- 2 The 2030 savings target is derived from the 2003 IRP Update forecast projections for 2030; it is not an official target for 2030
- $^{3}$  Includes code-based savings criginated through an active implementation program
- <sup>4</sup> Replenishment Service as defined in MWD Administrative Code Section 4114
- <sup>6</sup> Firm demand on Metropolifan equals Full Service demands plus 70% of the Interim Agricultural Water Program demands

Table II-5 Metropolitan Regional Water Demand **Multiple Dry Year** 

(Acre-Feet)

Majorbida	M	re-reet)				
±.	CONTINUED CONTINUE CO	2010	. 2015	<b></b>	12025	20
A.	Total Demands <sup>1</sup>	5,547,000	5,810,000	6,057,000	6,298,000	6,518,00
	Retail Agricultural	337,000	306.000	274,000		
	Retail Municipal and Industrial	4,984,000	5,256,000	5,521,000	/	
	Groundwater Replenishment	178,000	189,000	196,000	-, ,	197,00
	Seawater Barrier	48,000	59,000	66,000	66,000	66,00
<b>B</b> .	Total Conservation <sup>2</sup>	865,000	955,000	1,028,000	1,107,000	1,188,00
	Existing Active (through 2004) 3	94,000	92,000	92,000	91,000	91,00
	Code-based, Price-Effect, and Remaining IRP Target		613.000	686,000	766,000	847,00
	Pre-1990 Conservation	250,000	250,000	250,000		
		2.50,000	230,000	230,000	250,000	250,00
C.	Total Local Supplies	2,140,000	2,396,000	2,559,000	2,587,000	2,593,00
	Groundwater	1,378,000	1,409,000	1,412,000	1,425,000	1,431.00
	Surface Water	78,000	79,000	79,000	79,000	79,00
	Los Angeles Aqueduct	97,000	104,000	104,000	108.000	108,00
	Groundwater Recovery	108,000	114.000	115.000	115,000	115,00
	Total Recycling	300,000	375,000	407,000	408,000	408,00
	Desalination	9.333	114,000	150,000	150,000	150,000
	Other Imported Supplies	170,000	201,000	292,000	302,000	302,000
<b>D</b> .	Total Metropolitan Demands (D=A-B-C)	0.540.000				
	Full Service (Tier I and Tier II)	2,542,000	2,460,000	2,469,000	2,604,000	2,737,000
	Replenishment Service 4	2,318,000	2,238,000	2,254,000	2,405,000	2,549,000
	Interim Agricultural Water Program	119,000	130,000	136,000	137,000	137,000
	menin Agricultural Waler Program	105,000	92,000	79,000	62,000	51,000
***************************************	Firm Demands on Metropolitan <sup>5</sup>	2,392,000	2,302,000	2,309,000	2,448,000	2,585,000

All units are acre-feet unless specified, rounded to the nearest hundred.

- Totals may not sum due to rounding.

  Growth Projections: SCAG 2004 Regional Transportation Plan; SANDAG 2030 Forecast
  - The 2030 savings target is derived from the 2003 iRP Update forecast projections for 2030; it is not an official target for 2030
  - 3 Includes code-based savings originated through an active implementation program
  - Replenishment Service as defined in MWD Administrative Code Section 4114
  - Firm demand on Metropolitan equals Full Service demands plus 70% of the Interim Agricultural Water Program demands

#### Table II-6 Metropolitan Regional Water Demand Average Year

(Acre-Feet)

		ACIO-1 001	1			
	Andrew St. Communication of the St. Communicat	2010	201	A DYL	<b>7</b> 076	20%
A.	Total Demands <sup>1</sup>	5,493,000	5,721,000	5,964,000	6,190,000	6,395,00
	Retail Agricultural	326,000	294,000	263,000	233,000	215,00
	Retail Municipal and Industrial	4,918,000	5,132,000	5,420,000	5,677,000	5,907,00
	Groundwater Replenishment	200,000	213,000	215,000	214,000	207,00
-	Seawater Barrier	49,000	62,000	66,000	66,000	66,00
В,	Total Conservation <sup>2</sup>	865,000	955,000	1,028,000	1,107,000	1,188,00
	Existing Active (through 2004) <sup>3</sup>	94,000	92,000	92,000	91,000	91,000
	Code-based, Price-Effect, and Remaining IRP Target	521,000	613,000	686,000	766,000	847,000
	Pre-1990 Conservation	250,000	250,000	250,000	250,000	250,000
C.	Total Local Supplies	2,393,000	2,614,000	2,748,000	2,771,000	2,770,000
	Groundwater	1,416,000	1,430,000	1,431,000	1,444,000	1,442,000
	Surface Water	100,000	99,000	99,000	99,000	99,000
	Los Angeles Aqueduct	252,000	253,000	253,000	253,000	254,000
	Groundwater Recovery	111,000	115,000	115,000	115,000	115,000
	Total Recycling	316,000	387,000	408,000	408,000	408,000
	Desalination	28,000	128,000	150,000	150,000	150,000
	Other Imported Supplies	170,000	202,000	292,000	302,000	302,000
D.	Total Metropolitan Demands (D=A-B-C)	2,235,000	2,153,000	2,188,000	2,310,000	2,437,000
	Full Service (Tier I and Tier II)	1,967,000	1,887,000	1,931,000	2,071,000	2,213,000
	Replenishment Service 4	169,000	180,000	183,000	183,000	177,000
	Interim Agricultural Water Program	99,000	86,000	74,000	56,000	47,000
	Firm Demands on Metropolitan <sup>5</sup>	2,036,000	1,947,000	1,983,000	2,110,000	2,246,000

#### Notes:

All units are acre-feet unless specified, rounded to the nearest hundred.

Totals may not sum due to rounding.

- Growth Projections: SCAG 2004 Regional Transportation Plan; SANDAG 2030 Forecast
- <sup>2</sup> The 2030 savings target is derived from the 2003 IRP Update forecast projections for 2030; it is not an official target for 2030
- $^{\circ}$  Includes code-based savings originated through an active implementation program
- 4 Replenishment Service as defined in MWD Administrative Code Section 4114
- Firm demand on Metropolitan equals Full Service demands plus 70% of the Interim Agricultural Water Program demands

# Table II-7 Single Dry-Year Supply Capability¹ & Projected Demands

(Repeat of 1977 Hydrology)

(Acre-Feet)

Digital School of the Section of the	ACIE-reel	1			
which the many the second seco	2010	2015	2020	2025	2030
Current Supplies					An William Broke State Co.
In-Basin Storage	1,149,000	1,161,000	1,113,000	1.066,000	1,017,000
California Aqueduct <sup>2</sup>	777,000		,	1	777,000
Colorado River Aqueduct <sup>3</sup>	722,000		1,000	1.1000	699,00
Supplies Under Development	Mark Contraction of the Contract	AND THE RESERVE OF THE PERSON		The state of the s	The state of the s
In-Basin Storage	78,000	103,000	103.000	103,000	102 000
California Aqueduct	330,000	259.000	350,000	350,000	103,000
Colorado River Aqueduct	95,000	460,000	400,000	400,000	350,000 400,000
Transfers to Other Agencies	0	(35,000)	(35,000)	(35,000)	(35,000)
Metropolitan Supply Capability	3,151,000	3,424,000	3,407,000	3,360,000	3,311,000
Metropolitan Supply Capability w/CRA Maximum of 1.25 MAF <sup>4</sup>	3,151,000	3,356,000	3,309,000	3,252,000	3,203,000
Firm Demands on Metropolitan <sup>5,6</sup>	2,320,000	2,196,000	2,229,000	2,358,000	2,487,000
Potential Reserve & Replenishment Supplies	831,000	1,160,000	1,080,000	894,000	716,000

Represents supply capability for resource programs under listed year type

<sup>&</sup>lt;sup>2</sup> California Aqueduct includes Central Valley transfers and storage program supplies conveyed by the aqueduct

<sup>&</sup>lt;sup>3</sup> Colorado River Aqueduct includes water management program supplies conveyed by the aqueduct

<sup>&</sup>lt;sup>4</sup> Maximum CRA deliveries limited to 1.25 MAF including SDCWA/IID Transfer supplies and Coachella and All-American Canals lining supplies.

S Based on SCAG 2004 RTP, SANDAG 2030 forecasts, projections of member agency existing and contracted active conservation and local supplies, remaining regional targets for active conservation, SDCWA/IID Transfer supplies and Coachella and All-American Canals lining supplies.

Includes projected firm sales plus 70% of projected IAWP agricultural sales

#### Table II-8 **Multiple Dry-Year** Supply Capability<sup>1</sup> & Projected Demands

(Repeat of 1990-92 Hydrology)

(Acre-Feet)

	eij			
4/11	2015	2020	2021	2030
			1000 037 Brandsoft medige (b. in) by Line	Maria Maria de Caración de Car
514,000	518,000	502 000	497.000	470,00
912.000				
	1 -1-1-0			912.00
	0,,,000	677,000	077,000	699,00
- / Taman in the street own ratio with different and			to a commence of the second contract of the comment	
78 000	103,000	103.000	102.000	100.00
				103,000
				299,000
75,000	460,000	400,000	400,000	400,000
0	135,0001	125,0001	105.0001	
0	(33,000)	(35,000)	(35,000)	(35,000)
2 451 000	2 972 000	2 000 000		man on, a company to the control
2,007,000	2,072,000	2,880,000	2,865,000	2,848,000
2 451 000	2 904 000			and a second contract of the c
2,031,000	2,004,000	2,782,000	2,757,000	2,740,000
				STATE OF THE STATE
2 202 000	0 200 000			on a sound of the second second of the secon
2,372,000	2.302,000	2,309,000	2,448,000	2,585,000
259,000	502,000	473,000	309,000	155,000
	514,000 912,000 722,000 78,000 330,000 95,000 0 2,651,000 2,651,000	514,000 518,000 912,000 912,000 722,000 699,000 78,000 103,000 330,000 215,000 95,000 460,000 0 (35,000) 2,651,000 2,872,000 2,392,000 2,302,000	514,000       518,000       502,000         912,000       912,000       912,000         722,000       699,000       699,000         78,000       103,000       103,000         330,000       215,000       299,000         95,000       460,000       400,000         0       (35,000)       (35,000)         2,651,000       2,872,000       2,880,000         2,651,000       2,804,000       2,782,000         2,392,000       2,302,000       2,309,000	514,000         518,000         502,000         487,000           912,000         912,000         912,000         912,000           722,000         699,000         699,000         699,000           78,000         103,000         103,000         103,000           330,000         215,000         299,000         299,000           95,000         460,000         400,000         400,000           0         (35,000)         (35,000)         (35,000)           2,651,000         2,872,000         2,880,000         2,865,000           2,651,000         2,804,000         2,782,000         2,757,000

Represents supply capability for resource programs under listed year type

<sup>&</sup>lt;sup>2</sup> California Aqueduct includes Central Valley transfers and storage program supplies conveyed by the

<sup>3</sup> Colorado River Aqueduct includes water management program supplies conveyed by the aqueduct

<sup>&</sup>lt;sup>4</sup> Maximum CRA deliveries limited to 1.25 MAF including SDCWA/IID Transfer supplies and Coachella and All-American Canals lining supplies

Based on SCAG 2004 RTP, SANDAG 2030 forecasts, projections of member agency existing and contracted active conservation and local supplies, remaining regional targets for active conservation, SDCWA/IID Transfer supplies and Coachella and All-American Canals lining supplies

<sup>4</sup> Includes projected firm sales plus 70% of projected IAWP agricultural sales

### Table II-9 **Average Year** Supply Capability<sup>1</sup> & Projected Demands

(Average of 1922 - 2004 Hydrologies)

(Acre-Feet)

	(Acre-Fe	et)			
Current Supplies	2010	12011	2020	2025	9.00
In-Basin Storage California Aqueduct <sup>2</sup> Colorado River Aqueduct <sup>3</sup>	0 1,772,000 711,000	0 1,772,000 678,000	0 1,772,000 677,000	0 1,772,000 677,000	1,772,00 677,00
Supplies Under Development		the Market Market of the State	The second of comments. According to the contract of	- Arman Various I and -	27.700
In-Basin Storage California Aqueduct Colorado River Aqueduct	0 185,000 0	0 185,000 0	0 240,000 0	0 240,000	240,000
Transfers to Other Agencies	О	(35,000)	(35,000)	(35,000)	(35,000
Metropolitan Supply Capability	2,668,000	2,600,000	2.654,000	2,654,000	and the second second second second second second
Metropolitan Supply Capability w/CRA Maximum of 1.25 MAF <sup>4</sup>	2,668,000	2.600,000	2,654,000	2,654,000	2,654,000
Firm Demands on Metropolitan <sup>5,6</sup>	2.036.000	1.947,000	1.983,000	2,110,000	
Oteniini Pasassa		AND A STANDARD COLUMN TO SERVER AND ADDRESS OF THE PARTY.		2,110,000	2,246,000
Potential Reserve & Replenishment Supplies Represents supply capability for resource program California Associates	632,000	653,000	671,000	544,000	408.000

<sup>&</sup>lt;sup>2</sup> California Aqueduct includes Central Valley transfers and storage program supplies conveyed by the aqueduct

<sup>&</sup>lt;sup>3</sup> Colorado River Aqueduct includes water management program supplies conveyed by the aqueduct

<sup>4</sup> Maximum CRA deliveries limited to 1.25 MAF including SDCWA/IID Transfer supplies and Coachella and All-American

Based on SCAG 2004 RTP, SANDAG 2030 forecasts, projections of member agency existing and contracted active conservation and local supplies, remaining regional targets for active conservation, SDCWA/IID Transfer supplies and

<sup>6</sup> Includes projected firm sales plus 70% of projected IAWP agricultural sales

# **Appendix J-5 Olivenhain Municipal Water District**

The following water supply and demand tables are an excerpt from:

2005 Urban Water Management Plan Prepared by Olivenhain Municipal Water District 2005 Pages 10-11

In accordance with the Act, **Tables 8-3, 8-4, 8-5, 8-6,** and **8-7** show the multiple dry water year assessments in five-year increments. The member agencies' surface and groundwater yields shown in these tables are reflective of supplies available during the 1987-92 drought in years 1990, 1991 and 1992.

TABLE 8-2	
SINGLE DRY WATER YEAR SUPPLY AND DEMAND	ASSESSMENT
TOTAL STEEN AND TRACTOR MERITES	/AE/VE

FIVE YEAR INCREMENTS	(AF/YR)					
Water Authority Supplies	2010	2015	2020	2025	2030	
Regional Seawater Desalination at Encina 0 56,000 56,000 56,000						
56,000	0	56,000	56,000	56,000	56,000	
IID Water Transfer	70,000	100,000	190,000	200,000	200,000	
ACC and CC Lining Projects	77,700	77,700	<u>77,700</u>	77,700	77,700	
Sub-Total	147,700	233,700	323,700	333,700	333,700	
Member Agency Supplies						
Surface Water	22,284	22,284	22,284	22,284	22,284	
Water Recycling	33,644	40,598	45,459	46,368	47,430	
Groundwater	10,838	10,838	10,838	10,838	10,838	
Groundwater Recovery	11,400	<u>11,400</u>	11,400	11,400	11,400	
Sub-Total	78,166	85,120	89,981	90,890	91,952	
Metropolitan Water District Supplies	541,784	477,150	411,879	424,020	457,378	
TOTAL PROJECTED SUPPLIES	767,650	795,970	825,560	848,610	883,030	
TOTAL ESTIMATED DEMANDS						
w/Conservation	767,650	795,970	825,560	848,610	883,030	فالعاه

TABLE 8-3 MULTIPLE DRY WATER YEAR SUPPLY AND DEMAND ASSESSMENT

PRODEDONIVERSIVE				
FIVE-YEAR INCREMENTS	(AF/YR)			
		2006	2007	2008
Water Authority Supplies		40,000	71,500	71,500
Member Agencies		58,730	61,770	81,920
Metropolitan Supplies		645,790	616,510	601,610
<b>Total Estimated Supplies</b>		744,520	749,780	755,030
<b>Total Estimated Demands</b>		744,520	749,780	755,030
TABLE 8-4				
	2011	2012	2013	
Water Authority Supplies	213,700	223,700	233,700	
Member				
Agencies	81,550	80,620	86,810	
Metropolitan Supplies	476,160	472,960	452,640	
Total Estimated Supplies	771,410	777,280	783,150	
Total Estimated				
Demands	771,410	777,280	793,150	

### TABLE 8-5

	2016	2017	2018
Water Authority Supplies	233,700	233,700	263,700
Member			
Agencies	88,080	86,740	102,510
Metropolitan Supplies	479,250	486,710	447,060
<b>Total Estimated Supplies</b>	801,030	807,150	813,270
<b>Total Estimated</b>			
Demands	801,303	807,150	813,270
T			
TABLE 8-6			
	2021	2022	2023
Water Authority Supplies	333,700	33,700	333,700
Member			
Agencies	92,150	90,020	105,000
Metropolitan Supplies	404,830	412,120	402,310
<b>Total Estimated Supplies</b>	830,680	835,840	841,010
<b>Total Estimated</b>			
Demands	830,680	835,840	841,010
70 A 15 E 15 A 16			
TABLE 8-7			
	2026	2027	2028
Water Authority Supplies	333,700	333,700	333,700
Member			
Agencies	93,090	90,990	106,000
Metropolitan Supplies	431,690	440,940	433,070
<b>Total Estimated Supplies</b>	858,480	865,630	872,770
Total Estimated			
Demands	858,480	865,630	872,770

# Appendix J-6 Otay Water District

The following water supply and demand tables are an excerpt from:

2005 Urban Water Management Plan Prepared by Otay Water District December 2005 Pages 38-40

Table 30. Projected Normal Year Supply and Demand Comparison - AF/yr

	FY 2005	FY 2010	FY 2015	FY 2020	FY 2025	FY 2030
Water Authority	37,618	45,772	52,349	59.799	66,560	75,108
Recycled	1,155	4,040	4,684	5,430	6.294	7,297
Total Supply	38,773	49,812	57,033	65,229	72.854	82,405
Supply as % of year 2005	100%	128%	147%	168%	188%	212%
Total Demand	38,773	49,812	57,033	65,229	72,854	82,405
Demand as % of year 2005	100%	128%	147%	168%	188%	212%
Difference (supply minus demand)		0	0	0	0	0

Table 31. Projected Single Dry Year Supply and Demand Comparison - AF/yr

	FY 2010	FY 2015	FY 2020	FY 2025	FY 2030
Water Authority	49,259	56,341	64,365	71,660	80,876
Recycled	4,040	4,684	5,430	6,294	7,297
Total Supply	53,299	61,025	69,795	77,954	88,173
% of Normal Year	107%	107%	107%	107%	107%
Total Demand	53,299	61,025	69,795	77,954	88,173
% of Normal Year	107%	107%	107%	107%	107%
Difference (supply minus demand)	0	0	0	0	0

Table 32. Projected Supply and Demand Comparison during Multiple Dry Year Period Ending in 2010 – AF/yr

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010
Water Authority	42,619	44,982	44,534	46,896	49,259
Recycled	1,230	1,230	4,040	4,040	4,040
Total Supply	43,849	46,212	48,574	50,936	53,299
% of Normal Year	107%	107%	107%	107%	107%
Total Demand	43,849	46,212	48,574	50,936	53,299
% of Normal Year	107%	107%	107%	107%	107%
Difference (supply minus demand)	0	0	0	0	0

Table 33. Projected Supply and Demand Comparison during Multiple Dry Year Period Ending in 2015-AF/yr

	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Water Authority	50,675	52,091	53,509	54,925	56,341
Recycled	4,169	4,298	4,426	4,555	4,684
Total Supply	54,844	56,389	57,935	59,480	61,025
% of Normal Year	107%	107%	107%	107%	107%
Total Demand	54,844	56,389	57.935	59,480	61,025
% of Normal Year	107%	107%	107%	107%	107%
Difference (supply minus demand)	0	0	0	0	0

Table 34. Projected Supply and Demand Comparison during Multiple Dry Year Period Ending in 2020-AF/yr

	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Water Authority	57,946	59,551	61.156	62,760	64,365
Recycled	4,833	4,982	5,132	5.281	5,430
Total Supply	62,779	64,533	66,287	68,041	69,795
% of Normal Year	107%	107%	107%	107%	107%
Total Demand	62,779	64,533	66,287	68,041	69,795
% of Normal Year	107%	107%	107%	107%	107%
Difference (supply minus demand)	0	0	0	0	0

Table 35. Projected Supply and Demand Comparison during Multiple Dry Year Period Ending in 2025-AF/yr

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Water Authority	65,824	67,283	68,742	70,201	71,660
Recycled	5,603	5,776	5,948	6,121	6,294
Total Supply	71,427	73,059	74,690	76,322	77,954
% of Normal Year	107%	107%	107%	107%	107%
Total Demand	71,427	73,059	74,690	76,322	77,954
% of Normal Year	107%	107%	107%	107%	107%
Difference (supply minus demand)	0	0	0	0	0

Table 36. Projected Supply and Demand Comparison during Multiple Dry Year Period Ending in 2030-AF/yr

	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030
Water Authority	73,503	75,346	77,190	79,033	80,876
Recycled	6,495	6,695	6,896	7.096	7,297
Total Supply	79,998	82,042	84,086	86,129	88,173
% of Normal Year	107%	107%	107%	107%	107%
Total Demand	79,998	82,042	84,086	86,129	88,173
% of Normal Year	107%	107%	107%	107%	107%
Difference (supply minus demand)	0	0	0	0	0

## Appendix J-7 Padre Dam Municipal Water District

The following water supply and demand tables are an excerpt from:

2005 Urban Water Management Plan Prepared by Padre Dam Municipal Water District December 2005 Pages 4-6, 5-1 – 5-3

#### Projected Supply and Demand Comparison (AFY)

	Water Supplies by Year (AFY)					
Description	2010	2015	2020	2025	2030	
Imported Water Supply Lakeside/Riverview Groundwater Wells <sup>5</sup>	21,663	22,939	24,087	26,053	27,888	
Groundwater wetts	0	0	0	0	0	
Recycled Water	1,000	1,000	1,200	1,200	1,200	
Supply Total	22,663	23,939	25,287	27,253	29,088	
Projected Demand	22,663	23,939	25,287	27,253	29,088	
Difference (Supply - Demand)	0	0	0	0	0	
Ratio of Supply/Demand	100%	100%	100%	100%	100%	

<sup>&</sup>lt;sup>5</sup> Lakeside and Riverview Water Districts are expected to be detached from the District in 2006.

Table 4-4
District Supply Reliability (AFY)

	Normal	Single	Multiple	er Years	
Supply Source	Year (2004) <sup>1</sup>	Dry (2004) <sup>2</sup>	2006	2007	2008
SDCWA Imported <sup>3</sup>	20,909	22,073	21,063	21,743	22,444
Groundwater⁴	775	775	0	0	0
Recycled Water	1,600	1,600	1,600	1,600	1,600
Total Supply	23,284	24,448	22,663	23,343	24,044
Demand	23,284	24,448	22,663	23,343	24,044

<sup>&</sup>lt;sup>1</sup> 2004 water supply and demand are shown because 2005 was an unusually wet year.

<sup>&</sup>lt;sup>2</sup>Demand for a single dry year assuems a 5% increase in demand; multiple dry years assume increased demand due to growth but a 10% decrease resulting from water rationing.

<sup>&</sup>lt;sup>3</sup> The Water Authority's 2005 UWMP indicates that enough imported water will be available to meet multiple dry year demands.

<sup>&</sup>lt;sup>4</sup> Lakeside and Riverview Water Districts are included in 2004, although they are expected to be detached from the District in 2006.

Table 5-1
Projected Supply and Demand Comparison (MGD)

Water Supplies by Year (MGD) 2025 Description 2010 2015 2020 2030 Imported Water Supply No. 4 Connection 15.0 15.5 18.7 18.7 18.7 No. 6 Connection<sup>2,4</sup> 23.0 23.0 18.0 23.0 23.0 No. 7 Connection<sup>3,4</sup> 12.0 12.0 12.0 12.0 12.0 Lakeside/Riverview Groundwater Wells<sup>5</sup> 0.0 0.0 0.0 0.0 0.0 Recycled Water (max day) 2.7 2.7 2.0 2.0 2.7 56.4 56.4 47.0 52.5 56.4 Supply Total Projected Maximum Day Demand<sup>6</sup> 51.9 42.7 45.1 48.6 40.4 9.8 11.3 7.8 4.5 Difference (Supply - Demand) 6.6 109% 123% 125% 116% 116% Ratio of Supply/Demand

<sup>&</sup>lt;sup>1</sup> No. 4 Connection is filtered water with no local storage.

<sup>&</sup>lt;sup>2</sup> No. 6 Connection is from local storage of imported water and runoff.

<sup>&</sup>lt;sup>3</sup> No. 7 Connection is from local storage of imported water and runoff.

<sup>&</sup>lt;sup>4</sup> Imported water supplies are shown by capacity (actual use shown in Chapter 4). Interim year supply scenario is based on the East County Treated Water Distribution Study prepared for SDCWA by MWH (May 2004).

 $<sup>^{5}</sup>$  Lakeside and Riverview Water Districts are expected to be detached from the District in 2006.

<sup>&</sup>lt;sup>6</sup> Projected max day demands to 2030 are adjusted from Integrated Facilities Plan prepared for Padre Dam Municipal Water District by PBS&J (October 2001) to correlate with SDCWA's 2005 UWMP projections.

Table 5-2 Projected Dry Year and Multiple Dry Year Supply and Demand (2006-2009)

	Normal	Normal Single Year Year		Multiple Dry Water Years (MGD)			
Description	(MGD) (2004) <sup>1</sup>	(MGD) (2004)	2006	2007	2008		
Imported Water Supply <sup>2</sup> No. 4 Connection	19.4	19.4	19.4	19.4	19.4		
No. 6 Connection	18.0	18.0	18.0	18.0	18.0		
No. 7 Connection	0.0	0.0	0.0	0.0	0.0		
Lakeside/Riverview Groundwater Wells <sup>3</sup>	1.2	1.2	1.2	1.2	1.2		
Recycled Water (max day)	2.0	2.0	2.0	2.0	2.0		
Supply Total	40.6	40.6	40.6	40.6	40.6		
Projected Maximum Day Demand <sup>4</sup>	37.3	39.2	36.3	37.4	38.5		
Difference (Supply - Demand)	3.3	1.4	4.3	3.2	2.1		
Ratio of Supply/Demand	109%	104%	112%	109%	105%		

<sup>&</sup>lt;sup>1</sup> 2004 water supply and demand are shown because 2005 was an unusually wet year.

<sup>&</sup>lt;sup>2</sup> Imported water supplies are shown by capacity. The Water Authority's 2005 UWMP indicates that enough imported water will be available to meet these multiple dry year demands. Interim year supply capacity scenario is based on the East County Treated Water Distribution Study prepared for SDCWA by MWH (May 2004).

<sup>&</sup>lt;sup>3</sup> Lakeside and Riverview Water Districts are included in the supply and demand comparison, although they are expected to be detached from the District in 2006.

<sup>&</sup>lt;sup>4</sup> Projected max day demands for a single dry year assumes a 5% increases in demand; multiple dry years assume increased demand due to growth but a 10% decrease resulting from water rationing.

Table 5-3
Projected Dry Year and Multiple Dry Year Supply and Demand (2010-2013)

	Normal Year	Single Dry Year	Multiple Dry Water Years (MGD)		
Description	(MGD) (2010)	(MGD) (2010)	2011	2012	2013
Imported Water Supply <sup>1</sup> No. 4 Connection	15.0	19.4	19.4	19.4	19.4
No. 6 Connection	18.0	18.0	18.0	18.0	18.0
No. 7 Connection	12.0	9.7	9.7	9.7	9.7
Lakeside/Riverview Groundwater Wells <sup>2</sup>	0.0	0.0	0.0	0.0	0.0
Recycled Water (max day)	2.0	2.0	2.0	2.0	2.0
Supply Total	47.0	49.1	49.1	49.1	49.1
Projected Maximum Day Demand <sup>3</sup>	40.4	42.5	43.7	45.1 4.0	46.4 2.7
Difference (Supply - Demand)	6.6	6.6	5.4	4.0	2.7
Ratio of Supply/Demand	116%	116%	112%	109%	106%

<sup>&</sup>lt;sup>1</sup> Imported water supplies are shown by capacity. The Water Authority's 2005 UWMP indicates that enough imported water will be available to meet these multiple dry year demands. Interim year supply capacity scenario is based on the East County Treated Water Distribution Study prepared for SDCWA by MWH (May 2004).

 $<sup>^{\</sup>rm 2}$  Lakeside and Riverview Water Districts are expected to be detached from the District in 2006.

<sup>&</sup>lt;sup>3</sup> Projected max day demands for a single dry year assumes a 5% increases in demand; multiple dry years assume increased demand due to growth and no decrease resulting from water rationing.

## **Appendix J-8 Rainbow Municipal Water District**

The following water supply and demand tables are an excerpt from:

2005 Urban Water Management Plan Prepared by Rainbow Municipal Water District December 2005 Pages 22-23

Table 13- Normal Year Water Supply and Demand								
Wholesaler	2010	2015	2020	2025	2030/opt			
RMWD Demand w/conservation	25,849	24,087	22,091	17,957	17,506			
Supply Available to RMWD	25,849	24,087	22,091	17,957	17,506			
Total SDCWA Supply & Demand				795,64				
w/Conservation	715,450	742,900	771,510	0	829,030			
Data is based on SDCWA 2005 UWMP and includes near term annexation demands								

Table 14- Single Dry Year Water Supply and Demand								
Wholesaler	2010	2015	2020	2025	2030/opt			
RMWD Demand w/conservation	27,735	25,808	23,639	19,152	18,646			
Supply Available to RMWD	27,735	25,808	23,639	19,152	18,646			
Total SDCWA Supply & Demand w/Conservation	767,650	795,970	825,560	848,610	883,030			
Data is based on SDCWA 2005 UWMP								

Table 15- N	Table 15- Multiple Dry Year Water Supply and Demand								
Multiple Dry Year Group	Years	RMWD Demand	Supply to RMWD	Total SDCWA Supply and Demand					
	2006	24,323	24,323	744,520					
1	2007	24,493	24,493	749,780					
	2008	24,664	24,664	755,030					
	2011	27,929	27,929	771,410					
2	2012	28,125	28,125	777,280					
	2013	28,321	28,321	783,150					
	2016	25,988	25,988	801,030					
3	2017	26,170	26,170	807,150					
	2018	26,353	26,353	813,270					
	2021	23,804	23,804	830,680					
4	2022	23,971	23,971	835,840					
	2023	24,139	24,139	841,010					
	2026	19,287	19,287	858,480					
5	2027	19,422	19,422	865,630					
	2028	19,558	19,558	872,770					

## **Appendix J-9 Ramona Municipal Water District**

The following water supply and demand tables are an excerpt from:

2005 Urban Water Management Plan Prepared by Ramona Municipal Water District Pages 47-49

TABLE 8-1 NORMAL WATER YEAR SUPPLY AND DEMAND ASSESSMENT (AF/YR) <sup>1</sup>

D DELIVER RE				2020
2010	2015	2020	2025	2030
0	56,000	56,000	56,000	56,000
70,000	100,000	190,000	200,000	200,000
77,700	77,700	77,700	77,700	77,700
147,700	233,700	323,700	333,700	333,700
57,849	57,849	57,849	57,849	57,849
33,644	40,598	45,459	46,368	47,430
17,175	18,945	19,775	19,775	19,775
11,400	11,400	11,400	11,400	11,400
120,068	128,792	134,483	135,392	136,454
447,682	380,408	313,327	326,548	358,876
715,450	742,900	771,510	795,640	829,030
	742,900	771,510	795,640	829,030
,,	, ,	,		
	2010 0 70,000 77,700 147,700 57,849 33,644 17,175 11,400 120,068 447,682	2010         2015           0         56,000           70,000         100,000           77,700         77,700           147,700         233,700           57,849         57,849           33,644         40,598           17,175         18,945           11,400         11,400           120,068         128,792           447,682         380,408           715,450         742,900	2010         2015         2020           0         56,000         56,000           70,000         100,000         190,000           77,700         77,700         77,700           147,700         233,700         323,700           57,849         57,849         57,849           33,644         40,598         45,459           17,175         18,945         19,775           11,400         11,400         11,400           120,068         128,792         134,483           447,682         380,408         313,327           715,450         742,900         771,510	2010         2015         2020         2025           0         56,000         56,000         56,000           70,000         100,000         190,000         200,000           77,700         77,700         77,700         77,700           147,700         233,700         323,700         333,700           57,849         57,849         57,849         57,849           33,644         40,598         45,459         46,368           17,175         18,945         19,775         19,775           11,400         11,400         11,400         11,400           120,068         128,792         134,483         135,392           447,682         380,408         313,327         326,548           715,450         742,900         771,510         795,640

<sup>&</sup>lt;sup>1</sup> Near-term annexation demands are tentatively included in draft water demand forecast total. Final determination on including near-term annexation demands in final water demand forecast to be made by Board of Directors.

### TABLE 8-2 SINGLE DRY WATER YEAR SUPPLY AND DEMAND ASSESSMENT FIVE-YEAR INCREMENTS <sup>1</sup>

(AF/YR)

	2010	2015	2020	2025	2030
CWA Supplies					
Regional Seawater Desalination at Encina	0	56,000	56,000	56,000	56,000
IID Water Transfer	70,000	100,000	190,000	200,000	200,000
ACC and CC Lining Projects	77,700	77,700	77,700	77,700	77,700
Sub-Total	147,700	233,700	323,700	333,700	333,700
Member Agency Supplies					
Surface Water	22,284	22,284	22,284	22,284	22,284
Water Recycling	33,644	40,598	45,459	46,368	47,430
Groundwater	10,838	10,838	10,838	10,838	10,838
Groundwater Recovery	11,400	11,400	11,400	11,400	11,400
Sub-Total	78,166	85,120	89,981	90,890	91,952
Metropolitan Supplies	541,784	477,150	411,879	424,020	457,378
TOTAL PROJECTED SUPPLIES	767,650	795,970	825,560	848,610	883,030
TOTAL ESTIMATED DEMANDS	767,650	795,970	825,560	848,610	883,030

<sup>&</sup>lt;sup>1</sup> Near-term annexation demands are tentatively included in draft water demand forecast total. Final determination on including near-term annexation demands in final water demand forecast to be made by Board of Directors.

## MULTIPLE DRY WATER YEAR SUPPLY AND DEMAND ASSESSMENT FIVE-YEAR INCREMENTS $^{\rm 1}$ (AF/YR)

	2006	2007	2008
CWA Supplies	40,000	71,500	71,500
Member Agencies	58,730	61,770	81,920
Metropolitan Supplies	645,790	616,510	601,610
<b>Total Estimated Supplies</b>	744,520	749,780	755,030
<b>Total Estimated Demands</b>	744,520	749,780	755,030

### **TABLE 8-4**

	2011	2012	2013
CWA Supplies	213,700	223,700	233,700
Member Agencies	81,550	80,620	96,810
Metropolitan Supplies	476,160	472,960	452,640
<b>Total Estimated Supplies</b>	771,410	777,280	783,150
<b>Total Estimated Demands</b>	771,410	777,280	783,150

### **TABLE 8-5**

	2016	2017	2018
CWA Supplies	233,700	233,700	263,700
Member Agencies	88,080	86,740	102,510
Metropolitan Supplies	479,250	486,710	447,060
<b>Total Estimated Supplies</b>	801,030	807,150	813,270
<b>Total Estimated Demands</b>	801,030	807,150	813,270

### **TABLE 8-6**

	2021	2022	2023
CWA Supplies	333,700	333,700	333,700
Member Agencies	92,150	90,020	105,000
Metropolitan Supplies	404,830	412,120	402,310
<b>Total Estimated Supplies</b>	830,680	835,840	841,010
<b>Total Estimated Demands</b>	830,680	835,840	841,010

	2026	2027	2028
CWA Supplies	333,700	333,700	333,700
Member Agencies	93,090	90,990	106,000
Metropolitan Supplies	431,690	440,940	433,070
<b>Total Estimated Supplies</b>	858,480	865,630	872,770
<b>Total Estimated Demands</b>	858,480	865,630	872,770

<sup>&</sup>lt;sup>1</sup> Near-term annexation demands are tentatively included in draft water demand forecast total. Final determination on including near-term annexation demands in final water demand forecast to be made by Board of Directors.

### Appendix J-10 Rincon del Diablo Municipal Water District

The following water supply and demand tables are an excerpt from:

2005 Urban Water Management Plan Prepared by Rincon del Diablo Municipal Water District December 2005 Pages 15-18

	Tah	e 7				7.
Projected NORMAL	The second secon	e a company of the second	Demand	Compari	son	Page 1
	2005	2010	2015	2020	2025	2030
Supply Total	8,707	13,867	14,463	15,003	15,551	16,121
Imported Water	7,300	9,801	10,262	10,635	11,046	11,512
Recycled Water	52	4,074	4,074	4,074	4,074	4,074
Demand Total	7,352	13,875	14,336	14,709	15,120	15,586
Difference	1,355	8	127	294	431	535
Difference as % of Supplies	16%	0%	1%	2%	3%	3%
Difference as % of Demand	18%	0%	1%	2%	3%	3%

Projected SINGLE DI	Tabl RY Year S		d Deman	d Compa	rison	
	2005	2010	2015	2020	2025	2030
Supply Total	8,707	13,867	14,463	15,003	15,551	16,121
Imported Water Recycled Water	7,811 52	10,488 4,074	10,980 4,074	11,380 4,074	11,819 4,074	12,318
Demand Total	7,863	14,562	15,054	15,454	15,893	16,392
Difference Difference as % of Supplies Difference as % of Demand	<b>844</b> 10% 11%	<b>695</b> 5% 5%	<b>591</b> 4% 4%	<b>451</b> 3% 3%	<b>342</b> 2% 2%	<b>271</b> 2% 2%

# Table 9-A. Supply and Demand Comparison Projected Consecutive MULTIPLE DRY Year Occuring Between 2006 - 2010

	2006	2007	2008
Supply Total	12,743	14,359	14,425
Imported Water	9,068	10,285	10,351
Recycled Water	3,675	4,074	4,074
Demand Total	12,743	14,359	14,425

Table 9-E Supply and Demand Projected Consecutive ML Occuring Between 2	Compar ILTIPLE I	DRY Year	
	2011	2012	2013
Supply Total	13,937	14,835	14,907
Imported Water	9,863	10,761	10,833
Recycled Water	4,074	4,074	4,074
Demand Total	13,937	14,835	14,907

Table 9-0 Supply and Demand Projected Consecutive MU Occuring Between 2	Compar ILTIPLE	DRY Yea	
	2016	2017	2018
Supply Total	14,408	15,093	15,289
Imported Water	10,334	11,019	11,215
Recycled Water	4,074	4,074	4,074
Demand Total	14,408	15,093	15,289

# Table 9-D. Supply and Demand Comparison Projected Consecutive MULTIPLE DRY Year Occuring Between 2021 - 2025

	2021	2022	2023 15,712	
Supply Total	14,788	15,624		
Imported Water	10,714	11,550	11,638	
Recycled Water	4,074	4,074	4,074	
Demand Total	14,788	15,624	15,712	

	A STATE OF THE STA	Table	9-E.		
	Зи <mark>рр</mark> ју а	nd Dem	and Co	mparis	on .
Projec	ted Con	secutiv	: MULT	IPLE DI	RY Year
	Docuring	Betwee	n 202	6 - 202	50

	2026	2027	2028	
Supply Total	15,207	16,082	16,179	
Imported Water	11,133	12,008	12,105	
Recycled Water	4,074	4,074	4,074	
Demand Total	15,207	16,082	16,179	

## Appendix J-11 San Diego County Water Authority

The following water supply and demand tables are an excerpt from:

Updated 2005 Urban Water Management Plan Prepared by San Diego County Water Authority April 2007 Pages 8-2 – 8-4

TABLE 8-1 NORMAL WATER YEAR SUPPLY AND DEMAND ASSESSMENT (AF/YR)  $^{1}$ 

NURWAL WATER YEAR SUPPL	I I I I I I D	MAINTAL AND AN	DO ESCOTIVE	2 (	/
	2010	2015	2020	2025	2030
Water Authority Supplies					
IID Water Transfer	70,000	100,000	190,000	200,000	200,000
ACC and CC Lining Projects	77,700	77,700	77,700	77,700	77,700
Sub-Total	147,700	177,700	267,700	277,700	277,700
Member Agency Supplies					
Surface Water	59,649	59,649	59,649	59,649	59,649
Water Recycling	33,668	40,662	45,548	46,492	47,584
Groundwater	17,175	18,945	19,775	19,775	19,775
Groundwater Recovery	11,400	11,400	11,400	11,400	11,400
Seawater Desalination	0	34,689	36,064	37,754	40,000
Sub-Total	121,892	165,345	172,436	175,070	178,408
Metropolitan Water District Supplies	445,858	399,855	331,374	342,870	372,922
TOTAL PROJECTED SUPPLIES	715,450	742,900	771,510	795,640	829,030
TOTAL ESTIMATED DEMANDS w/ Conservation	715,450	742,900	771,510	795,640	829,030

Normal water year demands based on 1960 – 2002 hydrology.

### TABLE 8-2 SINGLE DRY WATER YEAR SUPPLY AND DEMAND ASSESSMENT FIVE YEAR INCREMENTS

(AF/YR)

	(/ ** / * **)				
	2010	2015	2020	2025	2030
Water Authority Supplies					
IID Water Transfer	70,000	100,000	190,000	200,000	200,000
ACC and CC Lining Projects	77,700	77,700	77,700	77,700	77,700
Sub-Total	147,700	177,700	267,700	277,700	277,700
Member Agency Supplies					
Surface Water	22,284	22,284	22,284	22,284	22,284
Water Recycling	33,668	40,662	45,548	46,492	47,584
Groundwater	10,838	10,838	10,838	10,838	10,838
Groundwater Recovery	11,400	11,400	11,400	11,400	11,400
Seawater Desalination	0	34,698	36,064	37,754	40,000
Sub-Total	78,190	119,882	126,134	128,768	132,106
Metropolitan Water District Supplies	541,760	498,388	431,726	442,142	473,224
TOTAL PROJECTED SUPPLIES	767,650	795,970	825,560	848,610	883,030
TOTAL ESTIMATED DEMANDS w/ Conservation	767,650	795,970	825,560	848,610	883,030

## MULTIPLE DRY WATER YEAR SUPPLY AND DEMAND ASSESSMENT FIVE-YEAR INCREMENTS (AF/YR)

	2006	2007	2008
Water Authority Supplies	40,000	71,500	71,500
Member Agencies	56,670	60,230	80,900
Metropolitan Supplies	647,850	618,050	602,630
<b>Total Estimated Supplies</b>	744,520	749,780	755,030
<b>Total Estimated Demands</b>	744,520	749,780	755,030

**TABLE 8-4** 

	2011	2012	2013
Water Authority Supplies	157,700	167,700	177,700
Member Agencies	101,012	100,431	116,970
Metropolitan Supplies	512,698	500,149	488,480
<b>Total Estimated Supplies</b>	771,410	777,280	783,150
<b>Total Estimated Demands</b>	771,410	777,280	783,150

### **TABLE 8-5**

	2016	2017	2018
Water Authority Supplies	177,700	177,700	207,700
Member Agencies	109,214	108,149	124,194
Metropolitan Supplies	514,116	521,301	481,376
<b>Total Estimated Supplies</b>	801,030	807,150	813,270
<b>Total Estimated Demands</b>	801,030	807,150	813,270

### **TABLE 8-6**

	2021	2022	2023
Water Authority Supplies	277,700	277,700	277,700
Member Agencies	114,752	112,960	128,288
Metropolitan Supplies	438,228	445,180	435,022
<b>Total Estimated Supplies</b>	830,680	835,840	841,010
<b>Total Estimated Demands</b>	830,680	835,840	841,010

	2026	2027	2028
Water Authority Supplies	277,700	277,700	277,700
Member Agencies	117,524	115,873	131,343
Metropolitan Supplies	463,256	472,057	463,727
<b>Total Estimated Supplies</b>	858,480	865,630	872,770
<b>Total Estimated Demands</b>	858,480	865,630	872,770

## **Appendix J-12 Santa Fe Irrigation District**

The following water supply and demand tables are an excerpt from:

2005 Urban Water Management Plan Prepared by Santa Fe Irrigation District December 2005 Pages 5-1 – 5-2

Table 5-1
Projected Normal Year Supply and Demand (AFY)

, , , , , , , , , , , , , , , , , , , ,						
	2005	2010	2015	2020	2025	2030
Demand	12,606	15,541	15,705	15,996	16,308	16,471
Supply						
San Diego County Water Authority	8,844	11,473	11,437	11,703	12,000	12,103
Lake Hodges	3,268	3,268	3,268	3,268	3,268	3,268
Recycled	494	800	1,000	1,025	1,040	1,100
SUBTOTAL	12,606	15,541	15,705	15,996	16,308	16,471
Difference (Supply-Demand)	0	0	0	0	0	0
% Supply Shortage	0%	0%	0%	0%	0%	0%

Projections are based on District data, and adjusted to correspond with Water Authority projections.

Table 5-2
Projected Multiple Dry Year Supply and Demand (AFY)

	Normal	Single	Mu	Itiple Dry	Water Yea	rs²
	Year (2005)	Dry <sup>1</sup> (2005)	Year 1 2006	Year 2 2007	Year 3 2008	Year 4 2009
Demand	12,606	13,236	13,853	14,469	15,085	15,702
Supply	***************************************	h				
San Diego County Water Authority	8,844	9,474	10,091	11,975	13,591	15,208
Lake Hodges	3,268	3,268	3,268	2,000	1,000	0
Recycled	494	494	494	494	494	494
SUBTOTAL	12,606	13,236	13,853	14,469	15,085	15,702
Difference (Supply-Demand)	0	0	0	0	0	0
% Supply Shortage	0%	0%	0%	0%	0%	0%

<sup>&</sup>lt;sup>1</sup> The single dry year assumes a 5% increase in demand.

<sup>&</sup>lt;sup>2</sup> Multiple dry years are increased based on increased forecasted demand. Note that forecasted demand is conservatively high as noted in Chapter 2, so dry year demands are also conservatively high.

## Appendix J-13 Sweetwater Authority/ South Bay Irrigation District

The following water supply and demand tables are an excerpt from:

2005 Urban Water Management Plan Prepared by Sweetwater Authority December 2005 Pages 48-49

Table 5 - Projected Normal Year Water Demands

Nater Use Sector			Fiscal Year Ending		
Taller doc decads	2010	2015	2020	2025	2030
Residential	17,126	18,211	19,362	19,878	21,205
Commercial	4,583	4,691	4,805	4,856	4987
Industrial	456	607	768	840	1,025
Public Authority	2,130	2,192	2,258	2,287	2,364
Irrigation/Agricultural	49	44	39	36	30
Other	39	40	41	41	42
Unaccounted for Water	1,041	1,101	1,165	1,193	1,266
Estimated Conservation Savings	1,212	1,590	1,952	2,320	2,659
Total	24,213	25,296	26,485	26,813	28,260

Table 6,1- Projected Water Demand during Single and Multiple Dry-Year Periods (2006 through 2008)

Table 6. I- Projected Wa	Normal Water	Single Dry Water	Multiple Dry Water Years		
	Year (2005)	Year (2005)	Year 1 (2006)	Year 2 (2007)	Year 3 (2008)
Total Demand (acre-feet)	23,570	25,220	25,357	25,495	25,632

Table 6.2- Projected Water Demand during Single and Multiple Dry-Year Periods (2011 through 2013)

	Normal Water Year (2010)	Single Dry Water	M	ars	
		Year (2010)	Year 1 (2011)	Year 2 (2012)	Year 3 (2013)
Total Demand (acre-feet)	24,213	25,907	26,139	26,371	26,603

Table 6.3- Projected Water Demand during Single and Multiple Dry-Year Periods (2016 through 2018)

	Normal Water Year (2015)	Single Dry Water	Multiple Dry Water Years			
		Year (2015)	Year 1 (2016)	Year 2 (2017)	Year 3 (2018)	
Total Demand (acre-feet)	25,296	27,067	27,321	27,576	27,830	

Table 6.4- Projected Water Demand during Single and Multiple Dry-Year Periods (2021 through 2023)

	Normal Water Single Dry Water		Multiple Dry Water Years			
	Year (2020)	Year (2020)	Year 1 (2021)	Year 2 (2022)	Year 3 (2023)	
Total Demand (acre-feet)	26,485	28,339	28,409	28,480	28,550	

Table 6.5- Projected Water Demand during Single and Multiple Dry-Year Periods (2026 through 2028)

	Normal Water	Single Dry Water	l N	lultiple Dry Water Ye	ars
	Year (2025)	Year (2025)	Year 1 (2026)	Year 2 (2027)	Year 3 (2028)
Total Demand (acre-feet)	26,813	28,690	28,999	29,309	29,619

### Appendix J-14 Vallecitos Water District

The following water supply and demand tables are an excerpt from:

2005 Urban Water Management Plan Prepared by Vallecitos Water District December 2005 Pages 3-6, 3-7 – 3-8

Table 3-1 Vallecitos Water District's Projected Supplies and Demand

Projected Supplies and Demand (Normal Year - AF/YR)

2030 22,903
,
00 704
28,781
5,878
22,903
0
_

<sup>1)</sup> Source - SDCWA-MAIN PMCL Baseline Point Projections model forecast for Vallecitos Water District (November 2005)

Source for baseline demand - Vallecitos Water District's 2002 Water, Wastewater, and Water Reclamation Master Plan Update - August 2005

<sup>3)</sup> Source for conservation savings estimates in 2010 & 2015 from SDCWA - starting in the year 2020 through 2030 the savings estimates are from both SDCWA & VWD and include potential BMPs, efficiency standards & other VWD programs

Table 3-2 VWD Single Dry-Year Water Supply and Demand Forecast

Single Dry-Year Water Demand Forecast - Five Year Increments (AF/YR)

			Siligle Div-Teal Water Demand 1 0100dot 1110 10di motorio 1						
2010	2015	2020	2025	2030					
20,826	21,152	21,791	22,739	24,413					
20,826	21,152	21,791	22,739	24,413					
21,578	23,872	26,155	28,388	30,652					
752	2,720	4,364	5,649	6,239					
20,826	21,152	21,791	22,739	24,413					
0	0	0	0	0					
	20,826 20,826 21,578 752 20,826	20,826 21,152 20,826 21,152 21,578 23,872 752 2,720 20,826 21,152	20,826     21,152     21,791       20,826     21,152     21,791       21,578     23,872     26,155       752     2,720     4,364       20,826     21,152     21,791	20,826     21,152     21,791     22,739       20,826     21,152     21,791     22,739       21,578     23,872     26,155     28,388       752     2,720     4,364     5,649       20,826     21,152     21,791     22,739					

- 1) As stated in the SDCWA's 2005 Urban Water Management Plan (VWD's wholesaler), no water supply shortages are anticipated during single and multiple dry year events (demand will increase during these events, however, so is the projected supply)
- Source for supply estimates SDCWA-MAIN PMCL Baseline Point Projections model forecast for Vallecitos
  Water District (November 2005) & from SDCWA 2005 UWMP supply projections for single dry-year assessments
- 3) Source for demand estimates Vallecitos Water District's 2002 Water, Wastewater, and Water Reclamation Master Plan Update August 2005, adjusted for dry w eather year demands
- 4) Source for conservation savings estimates from SDCWA & VWD starting with the year 2015 assessments include potential BMPs, efficiency standards, and other VWD programs

## Multiple Dry-Year Water Supply and Demand Assessment Five Year Increments 1,2,3

Table 3-3
Multiple Dry-Year Total Water Demand Forecast (AF/YR)

	2006	2007	2008
Estimated Supplies from SDCWA <sup>1</sup>	19,745	20,015	20,285
Total Estimated Supplies <sup>2</sup>	19,745	20,015	20,285
Total Estimated Demands <sup>3</sup>	19,745	20,015	20,285
Difference	0	0	0

Table 3-4
Multiple Dry-Year Total Water Demand Forecast (AF/YR)

Multiple Dry-real Total Water Demand Torecast (AT 7114)					
-	2011	2012	2013		
Estimated Supplies from SDCWA <sup>1</sup>	20,891	20,957	21,022		
Total Estimated Supplies <sup>2</sup>	20,891	20,957	21,022		
Total Estimated Demands <sup>3</sup>	20,891	20,957	21,022		
Difference	0	0	0		

Table 3-5
Multiple Dry-Year Total Water Demand Forecast (AF/YR)

	2016	2017	2018
Estimated Supplies from SDCWA <sup>1</sup>	21,280	21,408	21,535
Total Estimated Supplies <sup>2</sup>	21,280	21,408	21,535
Total Estimated Demands <sup>3</sup>	21,280	21,408	21,535
Difference	0	0	0

Table 3-6
Multiple Dry-Year Total Water Demand Forecast (AF/YR)

	2021	2022	2023
Estimated Supplies from SDCWA <sup>1</sup>	21,980	22,170	22,360
Total Estimated Supplies <sup>2</sup>	21,980	22,170	22,360
Total Estimated Demands <sup>3</sup>	21,980	22,170	22,360
Difference	0	0	0

Table 3-7
Multiple Dry-Year Total Water Demand Forecast (AF/YR)

and pio Diff Total Total Trails Demand Total Country				
	2026	2027	2028	
Estimated Supplies from SDCWA <sup>1</sup>	23,048	23,394	23,739	
Total Estimated Supplies <sup>2</sup>	23,048	23,394	23,739	
Total Estimated Demands <sup>3</sup>	23,048	23,394	23,739	
Difference	0	0	0	

- 1) As stated in the SDCWA's 2005 Urban Water Management Plan (VWD's w holesaler), no water supply shortages are anticipated during single and multiple dry year events (demand will increase during these events, however, so is the projected supply)
- 2) Source for supply estimates SDCWA-MAIN PMCL Baseline Point Projections model forecast for Vallecitos Water District (November 2005) & from SDCWA 2005 UWMP supply projections for multiple dry-years
- 3) Source for baseline demand Vallecitos Water District's 2002 Water, Wastewater, and Water Reclamation Master Plan Update, August 2005 demand figures have been adjusted for estimated conservation savings

### **Appendix J-15 Valley Center Municipal Water District**

The following water supply and demand tables are an excerpt from:

2005 Urban Water Management Plan Prepared by Valley Center Municipal Water District February 2006 Pages 7-1 – 7-3

Table 7-1. Normal Year Water Supply and Demand Comparison, ac-ft/yr (DWR Table 42)

	2010	2015	2020	2025
Supply totals	43,736	43,029	38,462	36,287
Demand totals	43,736	43,029	38,462	36,287
Difference (supply minus demand)	0	0	0	0
Difference as a percent of supply	0%	0%	0%	0%
Difference as a percent of demand	0%	0%	0%	0%

Units of Measure: ac-ft/yr

Source: SDCWA

Table 7-2. Single-Dry Year Water Supply and Demand Comparison, ac-ft/yr (DWR Table 45)

	2005	2010	2015	2020	2025
Supply totals	48,107	47,487	49,710	41,731	39,350
Demand totals	48,107	47,487	49,710	41,731	39,350
Difference (supply minus demand)	0	. 0	0	0	0
Difference as a percent of supply	0%	0%	0%	0%	0%
Difference as a percent of demand	0%	0%	0%	0%	0%

Units of Measure: ac-ft/yr

Table 7-3. Multiple-Dry Year Water Supply and Demand Comparison, ac-ft/yr, Period Ending in 2010 (DWR Table 48)

	2006	2007	2008	2009	2010
Supply totals	51,576	47,859	47,739	47,611	47,487
Demand totals	51,576	47,859	47,739	47,611	47,487
Difference (supply minus demand)	0	0	0	0	0
Difference as a percent of supply	0%	0%	0%	0%	0%
Difference as a percent of demand	0%	0%	0%	0%	0%

Units of Measure: ac-ft/yr

Table 7-4. Multiple-Dry Year Water Supply and Demand Comparison, ac-ft/yr, Period Ending in 2015 (DWR Table 51)

	2011	2012	2013	2014	2015
Supply totals	47,932	48,376	48,821	49,265	49,710
Demand totals	47,932	48,376	48,821	49,265	49,710
Difference (supply minus demand)	0	0	0	0	0
Difference as a percent of supply	0%	0%	0%	0%	0 <sup>è</sup> / <sub>0</sub>
Difference as a percent of demand	0%	0%	0%	0%	0%

Units of Measure: ac-ft/yr

Table 7-5. Multiple-Dry Year Water Supply and Demand Comparison, ac-ft/yr, Period Ending in 2020 (DWR Table 54)

	2016	2017	2018	2019	2020
Supply totals	48,114	46,518	44,922	43,327	41,731
Demand totals	48,114	46,518	44,922	43,327	41,731
Difference (supply minus demand)	0	0	0	0	0
Difference as a percent of supply	0%	0%	0%	0%	0%
Difference as a percent of demand	0%	0%	0%	0%	0%

Units of Measure: ac-ft/yr

Table 7-6. Multiple-Dry Year Water Supply and Demand Comparison, ac-ft/yr, Period Ending in 2025 (DWR Table 57)

	2021	2022	2023	2024	2025
Supply totals	41,255	40,778	40,302	39,826	39,350
Demand totals	41,255	40,778	40,302	39,826	39,350
Difference (supply minus demand)	0	0	0	0	0
Difference as a percent of supply	0%	0%	0%	0%	0%
Difference as a percent of demand	0%	0%	0%	0%	0%

Units of Measure: ac-ft/yr

#### Appendix J-16 Vista Irrigation District

The following water supply and demand tables are an excerpt from:

2005 Urban Water Management Plan Prepared by Vista Irrigation District December 2005 Pages 52-54

TABLE 6-1: NORMAL WATER SUPPLY AND DEMAND ASSESSMENT (AF/YR)

	2010	2015	2020	2025	2030
CWA Supplies (Regional and Imported)	17,417	18,389	19,617	21,413	23,197
Local Supply (Surface Water and					
Groundwater)	5,850	5,850	5,850	5,850	5,850
<b>Total Projected Supply</b>	23,267	24,239	25,467	27,263	29,047
<b>Total Projected Demand</b>	23,267	24,239	25,467	27,263	29,047
Difference	0	0	0	0	0

TABLE 6-2: SINGLE-DRY WATER SUPPLY AND DEMAND ASSESSMENT (AF/YR)

	2010	2015	2020	2025	2030
CWA Supplies (Regional and Imported)	23,866	24,933	26,247	28,168	30,077
Local Supply (Surface Water and Groundwater	1,003	1,003	1,003	1,003	1,003
Total Projected Supply	24,896	25,936	27,250	29,171	31,080
Total Projected Demand	24,896	25,936	27,250	29,171	31,080
Difference	0	0	0	0	0

### MULTIPLE-DRY WATER YEAR SUPPLY AND DEMAND ASSESSMENT (AF/YR)

**TABLE 6-3** 

	2006	2007	2008
CWA Supplies (Regional and Imported)	22,575	23,336	23,355
Local Supply (Surface Water and Groundwater)	1,578	1,003	1,170
Total Projected Supply	24,153	24,339	24,525
Total Projected Demand	24,153	24,339	24,525
Difference	0	0	0

TABLE 6-4

	2011	2012	2013
CWA Supplies (Regional and Imported)	23,526	24,309	24,350
Local Supply (Surface Water and Groundwater)	1,578	1,003	1,170
Total Projected Supply	25,104	25,312	25,520
Total Projected Demand	25,104	25,312	25,520
Difference	0	0	0

#### TABLE 6-5

	2016	2017	2018
CWA Supplies (Regional and Imported)	24,621	25,459	25,555
Local Supply (Surface Water and			
Groundwater)	1,578	1,003	1,170
Total Projected Supply	26,199	26,462	26,725
Total Projected Demand	26,199	26,462	26,725
Difference	0	0	0

#### TABLE 6-6

	2021	2022	2023
CWA Supplies (Regional and Imported)	26,056	27,015	27,232
Local Supply (Surface Water and Groundwater)	1,578	1,003	1,170
Total Projected Supply	27,634	28,018	28,402
Total Projected Demand	27,634	28,018	28,402
Difference	0	0	0

#### **TABLE 6-7**

	2026	2027	2028
CWA Supplies (Regional and Imported)	27,975	28,932	29,148
Local Supply (Surface Water and Groundwater)	1,578	1,003	1,170
Total Projected Supply	29,533	29,935	30,318
Total Projected Demand	29,533	29,935	30,318
Difference	0	0	0

#### Appendix J-17 Yuima Municipal Water District

The following water supply and demand tables are an excerpt from:

2005 Urban Water Management Plan Update Prepared by Yuima Municipal Water District January 2005 Exhibit D- Demand Sources

# Exhibit D Yuima Municipal Water District POTENTIAL SOURCES OF INCREASED DEMAND

#### WITHIN EXISTING DISTRICT BOUNDARIES:

Source of Demand	Current Peak Local Production (cfs)	Current Peak Demand (cfs)	Potential Peak Demand (cfs)	Potential Increase in Demand (cfs)
Lazy H Mutual Water Company	0.25	0.30	0.55	0.25
Rancho Estates Mutual Water Company	0.75	1.00	1.75	0.75
Rancho Pauma Mutual Water Co.	5.30	0.00	5.30	5.30
Pauma Ridge Mutual Water Co.	0.40	1.70	2.10	0.40
Private Wells in Yuima	3.00	0.00	3.00	3.00
Private Wells in IDA	2.00	0.00	2.00	2.00
YMWD Standby Meters - 15 total	0.00	0.00	4.00	4.00
Shuttleworth/Liszt Property (700 acres)	0.00	0.00	2.00	2.00
Developed Agricultural Lands	0.00	10.00	12.00	2,00
Totals (cfs):	11.70	13.00	32.70	19.70

#### OUTSIDE EXISTING DISTRICT BOUNDARIES:

Totals (cfs):	0.00	0.00	0.00	11.00
Mootamai Municipal Water District	0.00	0.00	0.00	2.00
Pauma Valley Water Company	0.00	0.00	0,00	4.50
Pauma Municipal Water District	0.00	0.00	0.00	0.00
Schocpe Enterprises (292 acres)	0.00	0.00	0,00	1.50
Agua Tibia Ranch	0.00	0.00	0.00	3.00

Total Potential Additional Demand (cfs): 30.70